

Section 02205

Impacted Material Excavation

PART 1 GENERAL

1.1 SCOPE

This section includes the requirements for the excavation, loading, hauling, and unloading of impacted materials and related activities including, but not limited to:

- A. Excavation of impacted materials from the Southern Waste Units (SWU) area and impacted material stockpiles designated on the Construction Drawings, including unclassified impacted material, Above Waste Acceptance Criteria (WAC) material, lead contaminated soil, Special Materials, and sediment.
- B. Loading and hauling of the excavated impacted materials from the SWU area and impacted material stockpiles and unloading of this material in the OSDF.
- C. Loading of the Special Materials excavated from the SWU area and impacted material stockpiles and transferring to the Special Material Transfer Area shown on the Construction Drawings.
- D. Loading and hauling of the excavated Above WAC material and unloading and placing in the OU-1 Stockpile Area shown on the Construction Drawings.
- E. Loading, and containerizing of excavated lead contaminated soil material from the SWU area and staging of these containers in the Lead Contaminated Soil Container Transfer Area shown on the Construction Drawings.
- F. Dust control as specified in Part 6.
- G. Hand excavation around the existing wells to remain within the SWU excavation area and impacted material stockpile areas.

1.2 RELATED SECTIONS AND PLANS

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- A. Section 02050 - Surveying.
- B. Section 02150 - Traffic Control.
- C. Section 02210 - Presumed Asbestos Containing Materials (PACM).
- D. Section 02212 - Material Identification and Documentation.
- E. Section 02275 - Erosion and Sediment Control.
- F. Section 02850 - Equipment Wash Facility.
- G. Section 02900 - Seeding.
- H. Part 6 - Statement of Work.
- I. Part 8 - Environmental Health and Safety, and Training Requirements.
- J. Impacted Materials Placement Plan, On Site Disposal Facility, October 1997, Revision I.
- K. On-Site Disposal Facility (OSDF) Phase II Technical Specifications.

1.3 REFERENCES

- A. Area 2 Phase I Southern Waste Units Implementation Plan for Operable Unit 2, October 1997, Revision C.
- B. Waste Acceptance Criteria Attainment Plan for the On Site Disposal Facility, August 1997, Revision B.
- C. Fernald Environmental Management Project (FEMP) Plan PL-2194, Spill Prevention Control and Countermeasure (SPCC) Plan, September 1996, Revision 3.

- D. Fernald Environmental Management Project (FEMP) Procedure. RP-0010, Identification and Movement of Radioactive Material, May 1996, Revision 2.
- E. Fernald Environmental Management Project Procedure (FEMP) PT-0007 Packaging Low Level Waste for Off-Site Shipment, August 1997, Revision 3.
- F. State of Ohio, Department of Transportation (ODOT), Construction and Material Specifications, January 1997.

1.4 SUBMITTALS

Submit an Excavation Work Plan to the Construction Manager within fifteen (15) calendar days from the Notice to Proceed for review and approval. The Excavation Work Plan shall be integrated into the Safe Work Plan specified in Part 6. The Excavation Work Plan shall include, as a minimum, the following:

1. Excavation, loading, hauling, and unloading methods and equipment, by size and type, for the impacted materials including unclassified impacted materials, the Above WAC Material, lead contaminated soil, stockpiles, and sediment. Include methods for separating category 2, 3, 4 and 5 impacted material specified in the Impacted Material Placement Plan for OSDF during excavation and size reduction methods to meet the WAC specified in the Impacted Materials Placement Plan for OSDF. Include steps taken to optimize WAC for support of the impacted material placement.
2. Technical approach for the coordination and implementation of the excavation related activities including submittals, surveying, fencing, erosion and sediment control, water management, stump grinding, loading requirements, equipment wash, haul road management, material identification and documentation, seeding, stabilization of exposed excavated areas and dust control.
3. Schedule for impacted material excavation with integrated Project Construction Schedule as specified in Part 6, for the excavation, including loading, hauling and unloading, and excavation related activities, showing sequence, duration, critical activities, resources for each activity, number of crews and crew size, and start and completion date for each activity.
4. Environmental Health and Safety, and Training requirements for the excavation, loading, hauling and unloading, including a plan for coordinating personnel and equipment in the excavation areas.

5. Methods for excavation, separation, and packaging of PACM in accordance with Section 02210.
6. Methods for the excavation, managing, loading, segregation, transferring and staging of Special Materials, Above WAC Material, and lead contaminated soil.
7. Loading, hauling and unloading methods for the Above WAC impacted materials to the OU-1 Stockpile Area, including:
 - a. Inclement weather operations.
 - b. Spreading, grading, and compaction.
 - c. Maintenance of surface conditions and drainage.
 - d. Temporary shutdown and work stoppage.
 - e. Methods to prevent haul equipment tires from coming in contact with Above WAC Material.
8. Location, sequencing, and construction of interim working stockpiles, if necessary.
9. Sequencing of interceptor ditch construction.
10. Methods for complying with the FEMP Plan PL-2194, for Spill Prevention and Control and Countermeasure (SPCC) Plan.

1.5 EXISTING CONDITIONS

Prior to start of excavation of the impacted materials, examine the existing conditions as specified in Section 02050.

1.6 HEALTH AND SAFETY REQUIREMENTS

Environmental Health and Safety, and Training requirements shall be as specified in Part 8.

1.7 DEFINITIONS

- A. **Impacted Material:** Impacted material is defined as material placed in the existing stockpiles, fill material in the SWU, sediment accumulated in the retention basins, ditches, and at erosion and sediment control measures, and non-fill material with contaminant levels above established Final Remediation Levels (FRLs).
- B. **Unclassified Impacted Material:** Unclassified impacted material shall be impacted material encountered during excavation, regardless of type, character, composition, and condition thereof, unless otherwise specified in this Section. Unclassified impacted material also includes excavated material from the impacted material stockpiles, sediment accumulated in the interceptor ditches, Retention Basins 1, 2 and 3, erosion and sediment control measures and SWU, except lead contaminated soil, Above WAC Material and Special Material.

Categories of unclassified impacted material shall be as specified in the Impacted Materials Placement Plan for the OSDF. Unclassified impacted material also includes debris encountered during excavation in the SWU and the impacted material stockpiles. Distribution of debris mixed with soil or soil like material in the excavation of the unclassified impacted material is not anticipated to be uniform throughout the SWU and impacted material stockpiles. Debris may comprise up to 15 percent of the total volume of impacted material. Debris consists of impacted material such as construction materials, concrete, asphalt, steel rebar, non-friable PACM and other materials not defined as a Special Material. Criteria for debris shall be as specified in the Impacted Materials Placement Plan and Waste Acceptance Criteria Attainment Plan for OSDF.

- C. **Lead Contaminated Soil:** Soil with lead concentrations above the FRL for lead [400 milligram/kilogram (mg/kg)] that may, upon further Toxicity Characteristic Leaching Procedure (TCLP) analysis, qualify as a Resource Conservation and Recovery Act (RCRA) toxicity characteristic hazardous waste.

- D. Above WAC Material: Soil, soil mixed with debris, debris, or soil-like impacted material with total uranium concentrations above the OSDF total uranium WAC [1030 mg/kg], or any other material that does not meet the OSDF WAC.
- E. Special Materials: Impacted material which requires special handling shall be as listed below:
1. Friable PACM, as specified in Section 02210;
 2. Nonpressurized (i.e. in-tact) containers, including drums, boxes, cans;
 3. Pressurized containers;
 4. Pumps and piping;
 5. Non-soil residues, including green salt, black oxide, orange oxide, and sump cake;
 6. Transformers and electrical equipment;
 7. Lead acid batteries;
 8. Uranium metal, including derbies, ingots and irregularly shaped scrap;
 9. Medical/infectious waste;
 10. Tires;
 11. Miscellaneous debris, including oil and air filters, personal protective equipment (PPE), radiators, cables, wires, tools, heavy equipment, office materials and documents, and lead flashing.
 12. Acid bricks.

PART 2 PRODUCTS

2.1 MATERIALS

- A. FDF shall furnish metal boxes and lids for lead contaminated soil. Each box shall be approximately 4 x 4 x 7 foot and weigh approximately 1,100 pounds empty. Contractor shall notify FDF a minimum of thirty (30) calendar days prior to the start of lead contaminated soil excavation. Contractor shall load boxes to a maximum gross weight of 9,000 pounds.
- B. FDF shall furnish materials, equipment, and personnel for radiological characterization and monitoring of the impacted material.

- C. Aggregate base shall meet the requirements of ODOT Item 304.

2.2 EQUIPMENT

- A. Provide equipment of size and type to excavate, load, haul, and unload impacted material to meet the Contract requirements.
- B. Provide equipment of size and type to load, haul, unload, place, manage, and compact material in the OU-1 Stockpile Area to meet the Contract requirements.
- C. Equipment to be operated over the existing Impacted Material Haul Road, including equipment to be used to haul impacted material, shall be equal to or less than the gross vehicle weight, tire pressure and axle loading for a Caterpillar CAT D300E truck (gross vehicle weight of 106,700 pounds, tire pressure of 60 psi, and axle load of 37,400 pounds).

Pavement width of the existing two way Impacted Material Haul Road width is 24 feet. Select equipment and equipment width to ensure safe operation on this two-way road.

- D. Equipment, including equipment to be used to haul impacted materials on the Impacted Material Haul Road, shall have enclosed cabs. Enclosed cab is defined as an equipment cab isolated from outside environment (intact windows, doors, panels and floors surrounding driver with all windows and doors shut) which provides a barrier from intrusion of outside airborne particles. Any HVAC (heating, ventilating or air conditioning) units associated with the equipment cab must not provide a direct path for outside air to enter (air conditioner on air recirculate mode), unless the air is passed first through a HEPA filter pulled directly from outside the cab.
- E. Provide water tank trucks, tank trucks for the suppressant agent and crusting agent, portable tanks, pressure distributors, piping or other equipment designed to apply dust suppressant and crusting agent uniformly and in controlled quantities to variable surface widths to provide dust control as required in Part 6.
- F. Provide stump grinder to meet the Contract requirements.

- G. Provide equipment to weigh loaded lead contaminated soil boxes.

PART 3 EXECUTION

3.1 GENERAL EXCAVATION REQUIREMENTS

- A. Manage construction fence and radiological control fence as specified in Section 02150 and Part 6 and as shown on the Construction Drawings. Signs and sign posts for the radiological control areas shall be furnished and installed by FDF.
- B. Install and manage traffic control measures and devices as specified in Section 02150.
- C. Survey and layout excavation limits and grid in accordance with Section 02050 and as shown on the Construction Drawings.
- D. Install and manage erosion and sediment control measures in accordance with Section 02275. Construct and manage Interceptor Ditch No. 1 prior to excavation of Inactive Flyash Pile (IFP). Install Interceptor Ditch No. 2 as soon as practical in conjunction with the excavation depicted on the Construction Drawings.
- E. Provide material identification and documentation in accordance with Section 02212.

- F. Continuously observe excavations for Special Materials and change in materials and immediately notify the Construction Manager of a change in impacted material and finding of Special Material.
- G. Dust control shall be in accordance with Part 6 and the Dust Control Plan. Dust control shall be provided during excavation, segregation, size reduction, loading, hauling, transferring, unloading, and other related activities, and during off-hours as specified in Part 6.
- H. Location of the interim working stockpiles shall be within the limits of the SWU and as approved by the Construction Manager. Interim working stockpiles shall be removed within a maximum of thirty (30) calendar days.
- I. Blasting, including use of explosives or explosive devices, is not permitted.
- J. Water management shall be as specified in Section 02275 and Appendix B of the Area 2, Phase I Southern Waste Units Implementation Plan for Operable Unit 2, "Surface Water Management Plan".
- K. Impacted material excavation and related activities shall be performed in accordance with the approved Excavation Work Plan.
- L. FDF and regulatory agencies may collect impacted material samples from the excavation, haul equipment and in the OSDF at any time during the project.
- M. Unexpected discovery of cultural resources: Upon the unexpected discovery of any historic, prehistoric, or archeological site, feature or object, immediately cease ground disturbing activities at the find and contact the Construction Manager.

- N. During excavation segregate Category 2 material larger than 12-inches and maximize volume of Category 1 material. Size reduce segregated Category 2 material to meet physical WAC specified in Impacted Materials Placement Plan for OSDF.
- O. Excavate and segregate material as required for construction of protective layers, select impacted material and contouring layer as required for placement, and impacted material required for placement of Category 2, 3, 4 and 5 materials as specified in the Impacted Materials Placement Plan for OSDF.
- P. The following additional requirements shall apply to equipment for excavation, loading, hauling, and unloading:
1. Equipment used for excavation, loading, hauling and unloading of the impacted material from the SWU and the stockpiles shall be clearly and conspicuously marked by the Contractor as "Radioactive Material" in accordance with FEMP Procedure RP-0010.
 2. Equipment used during excavation, loading, hauling, and unloading of the impacted material and during periods of non-use (evenings, weekends, holidays) shall be kept within the SWU and in OU-1 Stockpile Area.
 3. Equipment used for hauling of the impacted material shall be equipped with an automatic cover. The cover shall be in place during all periods of equipment movement on-site, whether empty or full.
 4. Equipment used for excavation, loading, hauling, and unloading impacted material shall not be permitted to leave the radiological control areas until equipment decontamination activities are completed by the Contractor and radiological survey of the equipment is performed by FDF.
 5. Equipment cab shall remain closed and operators shall not be allowed out of the equipment in any posted contamination area without appropriate PPE except in emergency situations.
 6. Equipment used during the excavation of the Above WAC Material, lead contaminated soil material, and soil placement in the OU-1 Stockpile Area shall stay in the respective areas until completion of the excavation and placement.
 7. Haul equipment transferring material on the Impacted Material Haul Road shall remain on the road as much as practical while waiting to dump or be

loaded. Sequence equipment to minimize time spent within the SWU excavation, OSDF cell and OU-1 Stockpile Area

Q. Loading Requirements:

1. Haul equipment shall be loaded so as to minimize load shifting during transit.
2. Visually check impacted material for free liquid prior to loading. Free liquid in the impacted material before loading shall be as specified in the Impacted Materials Placement Plan for OSDF.

R. Hauling requirements:

1. Haul equipment shall be washed at the equipment wash facilities before entering the Impacted Material Haul Road at the SWU and OSDF. Requirements for equipment wash shall be as specified in Section 02850.
2. Maintain the Impacted Material Haul Road free of visible mud, soil, soil-like material, debris, or impacted material in accordance with Part 6.
3. Provide dust control for the haul roads on a continual basis in accordance with Part 6.
4. Haul equipment traffic shall remain on the haul roads designated on the Construction Drawings. Equipment that enters the haul roads shall not be allowed to exit, except at the SWU area, stockpiles, OSDF Debris Transfer Area and/or the OSDF, without approval by the Construction Manager.
5. Tracked equipment shall be prohibited from hauling, operating, or tracking over or on the Impacted Material Haul Road.

S. Unless otherwise specified, FDF will perform monitoring of the surface of each lift to be excavated to determine if WAC has been attained. Contractor shall excavate in another location during monitoring and while awaiting the results, at no additional cost to FDF. FDF monitoring of each lift will take at least two (2) work days after the lift is graded and ready for FDF monitoring. Duration for FDF monitoring shall be extended by one (1) day for each day precipitation occurs.

T. FDF will not perform monitoring of the following stockpiles during excavation: South Field Impacted Material Stockpile, OSDF East Impacted Material and Debris stockpiles, and OSDF West Impacted Material and Debris stockpiles.

- U. If Contractor is unable to excavate within the limits of the IFP, move excavation to the South Field Impacted Material Stockpile and/or the South Field (SF), as directed by the Construction Manager. If Contractor is unable to excavate within the limits of the SF, move excavation to the Active Flyash Pile (AFP). Movement between excavation areas shall be at the direction of the Construction Manager and at no additional cost to FDF.
- V. Temporary shutdown shall be as specified in Part 6.
- W. Stump Grinding:
 - 1. Grind stumps within SWU to a minimum depth of 12 inches or to the bottom of the root-mass within 18 inches of the stump in all horizontal directions. Grind the wood chips in pieces generally smaller than 12 inches dimensions.
 - 2. Excavate the ground stump wood chips with the soil and haul to the OSDF. The volume of organic material shall be less than 1/4 of the truckload for hauling to the OSDF. Determination of the volume of organic material in the truckload shall be by visual observation by FDF.
- X. Tolerances for the excavation grades shown on the Construction Drawings shall be from 0 to +6 inches.
- Y. Perform stabilization of the excavated areas using crusting agent and temporary seeding in accordance with Sections 02275 and 02900, respectively.
- Z. FDF will provide an existing Special Material Transfer Area. The Special Material Transfer Area shall be relocated as necessary to accommodate excavation. The Special Material Transfer Area shall be constructed with aggregate base stone. Aggregate material shall meet the requirements of ODOT Item 304. Compaction requirements for aggregate material shall meet or exceed ODOT Item 304 requirements. Special Material Transfer Area shall be as shown on the Construction Drawings and described in this Section.

3.2 UNCLASSIFIED IMPACTED MATERIAL EXCAVATION

- A. Typically excavations shall proceed in an up gradient to down gradient pattern to the limits indicated on the Construction Drawings.
- B. Excavate SWU from a location higher in elevation than the area to be excavated unless otherwise approved by the Construction Manager.
- C. Select equipment and excavation methods to minimize obstruction of continuous visual observation of the excavation.
- D. Excavation of the unclassified impacted materials shall proceed by excavating the material in 3 foot +/- 1 foot lifts and in maximum 100 foot by 200 foot areas, followed by monitoring of the surface area by FDF. During excavation of each lift, rough grade the area to drain. Maximum slope of the rough graded area shall be 6 percent. Move excavation operation a minimum of 50 feet from the previous excavation area while awaiting monitoring results. Construction Manager will notify Contractor of areas available for excavation.

- E. If Above WAC Material or Special Materials are encountered, stop excavation, notify Construction Manager and move the excavation operation to another location as directed by the Construction Manager.
- F. Hand excavate around the existing monitoring wells as shown on the Construction Drawings.
- G. Impacted material for the protective layer and contouring layer shall be obtained from the OSDF West Impacted Material Stockpile and/or AFP. Impacted material for the select impacted material layer shall be obtained from the IFP, SF, South Field Impacted Material stockpile and/or OSDF West Impacted Material Stockpile. Impacted material requirements for protective layer, select impact material layer and contouring layer shall be as specified in the OSDF Phase II Technical Specifications.

3.3 LEAD CONTAMINATED SOIL EXCAVATION

- A. Survey and stake the limits of lead contaminated soil excavation in accordance with Section 02050 and as shown on the Construction Drawings.
- B. Excavate the unclassified impacted material overburden as indicated on the Construction Drawings and in accordance with this Section.
- C. Excavate the lead contaminated soil to the limits and elevations as shown on the Construction Drawings.
- D. Notify FDF thirty (30) calendar days prior to the start of excavation of the lead contaminated soil. Load the lead contaminated soil into metal boxes provided by FDF and haul to the Lead Contaminated Soil Container Transfer Area. FDF will sample the material prior to the Contractor fastening the lids and hauling to the transfer area. The boxes shall be loaded and fastened as per FEMP PT-0007.

- E. Loaded containers shall not exceed 9000 pounds in gross weight. Containers shall be weighed by the Contractor prior to placement in the Lead Contaminated Soil Container Transfer Area. Lead contaminated soil is expected to have a dry unit weight of approximately 100 to 115 pounds per cubic foot (pcf).
- F. Visually check lead contaminated soil material for free liquid prior to loading in the container. Moisture content in the soil shall not result in "bleeding" of liquids. Material with free liquid shall not be loaded until free liquid is no longer present.
- G. Lead contaminated soil shall be loaded immediately adjacent to the lead contaminated soil excavation area.
- H. Grade Lead Contamination Soil Container Transfer Area to drain into the existing ditch and compact before transfer of the containers. Loaded containers shall be placed on the compacted surface in the Lead Contaminated Soil Container Transfer Area in a manner that protects the containers from damage. Provide access and culvert as indicated on the Construction Drawings.
- I. FDF will perform confirmatory sampling of the lead contaminated soil area. Contractor shall excavate in another location during sampling and while awaiting the results of the sampling, at no additional cost to FDF.
- J. Perform additional excavation as directed by the Construction Manager and as specified in this Section.

3.4 ABOVE WAC MATERIAL EXCAVATION

- A. Material above or outside the Above WAC excavation area shall be excavated as unclassified impacted material as specified in this Section. Areas anticipated to contain Above WAC material shall be as designated on the Construction Drawings.

- B. Excavation within the Above WAC Material Area shall proceed by removing the material in 4 foot lifts, followed by monitoring at the perimeter of the above WAC excavation area by FDF. Survey the limits of the Above WAC Material excavation area after excavation of each lift.
- C. If monitoring results along a side of the Above WAC excavation are above WAC, the Above WAC material excavation area shall be expanded 5 feet laterally in all directions from the location of the above WAC monitoring results.
- D. After excavating a lift within the Above WAC area, excavate the surrounding unclassified impacted material to a depth of at least 1 foot above the excavated bottom of the Above WAC excavation area. Grade surrounding area to drain away from the Above WAC excavation except the loading area for the Above WAC Material. Loading area shall be graded to drain into the Above WAC excavation sump. Maintain loading area clear of spillage. Remove spillage prior to entry of next haul equipment in loading area.
- E. Excavate Above WAC material and surrounding unclassified impacted material to the limits shown on the Construction Drawings or as otherwise directed by the Construction Manager.
- F. Maintain sumps within the Above WAC excavation to collect water encountered during excavation. Water collected in these sumps shall be pumped to the nearest retention basin as specified in Section 02275. If sump excavation penetrates the Great Miami Aquifer (GMA), line the sump with a 60 mil textured HDPE geomembrane liner to prevent potential contamination of the GMA. Geomembrane liner shall be installed and anchored in accordance with Interceptor Ditch Detail as shown on the Construction Drawings. Geomembrane liner shall be as specified in Section 02275.
- G. Loading area for haul equipment shall be adjacent to the Above WAC Area and as close to the Equipment Wash Facility as possible. The loading area shall be relocated as necessary during excavation.
- H. Haul equipment shall remain outside of the Above WAC Area at all times.

- I. Above WAC materials shall be hauled to the OU-1 Stockpile Area.
- J. Requirements for unloading and stockpiling the Above WAC material at the OU-1 Stockpile Area shall be:
 - 1. Construction of ingress/egress to the stockpile area.
 - 2. Constructing an unloading area that prevents haul equipment tires from coming in contact with the Above WAC Material.
 - 3. Placing material in a stockpile at a location designated by the Construction Manager.
 - 4. Immediately repair damage to the stockpile structures to the original condition (i.e., silt fence, perimeter fence, etc.) caused by the Contractor, at no additional cost to FDF.
 - 5. Dust suppressant shall be in accordance with Part 6.
 - 6. Crusting agent shall be applied, within seven (7) calendar days, upon completion of the stockpile or if the stockpile is to be inactive for more than forty-five (45) calendar days.
 - 7. Surface of the stockpile in use shall be compacted/sealed at the close of each work day to prevent fugitive dust and runoff.
 - 8. Equipment and material used in the placement and management of Above WAC impacted material in the OU-1 Stockpile Area shall not be removed from the area without the approval of the Construction Manager. This equipment shall not be removed from area before washing. Equipment washing shall be performed within the OU-1 Stockpile Area. Wheels, tires, undercarriage and body of equipment shall be washed free of visible mud, dirt and debris.

3.5 SPECIAL MATERIAL EXCAVATION

- A. Special Materials identified during excavation shall be excavated, segregated, managed, loaded, transferred and stored at the Special Material Transfer Area as directed by the Construction Manager.
- B. FDF will be responsible for final disposition of the Special Materials.

- C. The Special Material Transfer Area shall be relocated within approximately twenty feet of an existing gravel road within the limits of the SWU. Actual location shall vary as excavation progresses and shall be approved by the Construction Manager. Existing and relocated Special Material Transfer Area shall be as shown on the Construction Drawings.
- D. PACM encountered during excavation shall be managed in accordance with Section 02210.
- E. FDF will furnish containers necessary for handling, staging, transferring and disposal of Special Materials except for PACM.

3.6 EXCAVATION OF THE IMPACTED MATERIAL STOCKPILES

- A. Excavation of the impacted material stockpiles, including the OSDF East and West Debris Stockpiles, as shown on the Construction Drawings shall be in accordance with unclassified impacted material excavation as specified in this Section. Stockpiles shall not require FDF monitoring during excavation and may be excavated at Contractor's discretion. Material excavation from stockpiles shall be hauled and unloaded in the OSDF.
- B. After removal of the OSDF East and West Impacted Material Stockpiles excavate 12-inches below the stockpiles within the limits shown on the Construction Drawings. Notify the Construction Manager at completion of excavation of the East and West Impacted Material Stockpiles and prior to start of 12-inch excavation. Prior to start of 12-inch excavation, FDF will perform monitoring within two (2) work days after completion of stockpile excavation. Contractor shall perform excavation after completion of FDF monitoring. This material shall be considered as unclassified impacted material and shall be excavated, loaded, hauled, and unloaded in the OSDF.
- C. Install erosion and sediment controls before the excavation of the stockpiles and maintain until completion of stockpile excavation. Erosion and sediment control measures shall be as specified in Section 02275.

- D. After completion of stockpile excavation, grade the area to match the surrounding grade and provide temporary seeding as specified in Section 02900.

END OF SECTION

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